

Chemical constituents of the soft corals *Sinularia vanderlandi* and *Sinularia gravis* from the coast of Madagascar

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Abstract

© 2016 The Royal Society of Chemistry. The crude extracts of the Madagascan soft corals *Sinularia vanderlandi* and *Sinularia gravis* (Alcyoniidae) showed activity against *Plasmodium falciparum* which led us to study their chemical constituents. The new cadinane-type sesquiterpenoid vanderlandin (1) has been obtained from *S. vanderlandi* along with 24-methylenecholesterol (2). Four new compounds, the spatane-type diterpenoid gravilin (3), the monoalkylmonoacylglycerol 4, the dihomoditerpenoid ketone 5, and isodecaryiol (9), along with the three known compounds (+)-(S)-geranyllinalool (6), (-)-(R)-nephthenol (7), and 11,12-epoxysarcophytol A (8) have been isolated from the methanol extract of *S. gravis*. The structures were elucidated based on extensive spectroscopic methods, in particular various 2D NMR techniques. The structure of isodecaryiol (9) including its absolute configuration could be confirmed by X-ray diffraction.

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